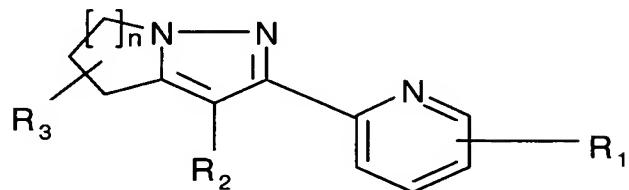


Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1. (currently amended) A compound of the formula:



Formula 1a

wherein n is 1-4;

R₁ may be one or more optional substituents selected from the group consisting of: (C1-C6)alkyl, (C2-C6)alkenyl, (C2-C6)alkynyl, (C1-C6)alkoxy, (C2-C6)alkenyloxy, (C2-C6)alkynyloxy, (C1-C6)alkylthio, (C1-C6)alkylsulphinyl, (C1-C6)alkylsulphonyl, (C1-C6)alkylamino, di-[(C1-C6)alkyl]amino, (C1-C6)alkoxycarbonyl, N-(C1-C6)alkylcarbamoyl, N,N-di-[(C1-C6)alkyl]carbamoyl, (C2-C6)alkanoyl, (C2-C6)alkanoyloxy, (C2-C6)alkanoylamino, N-(C1-C6)alkyl-(C2-C6)alkanoylamino, (C3-C6)alkenoylamino, N-(C1-C6)alkyl-(C3-C6)alkenoylamino, (C3-C6)alkynoylamino, N-(C1-C6)alkyl-(C3-C6)alkynoylamino, N-(C1-C6)alkylsulphamoyl, N,N-di-[(C1-C6)alkyl]sulphamoyl, (C1-C6)alkanesulphonylamino, N-(C1-C6)alkyl-(C1-C6)alkanesulphonylamino, carboxamide, ethylene, thiophenyl, aminophenyl, trifluoromethyl, halo, trifluoromethoxy, hydroxymethyl, N-pyrrolidino, N-morpholino, phenylthio, (C1-C4)dialkylaminomethyl, methoxyphenyl, amino, hydroxy, carboxyl, phenyl, and arylalkyl;

R₂ is selected from the group comprising unsubstituted or substituted thiophene; unsubstituted or substituted oxazole; unsubstituted or substituted pyrazine; unsubstituted or substituted furan; unsubstituted or substituted imidazo[1,2-a]pyridine; unsubstituted or substituted benzimidazole; unsubstituted or substituted quinoxaline; unsubstituted or substituted isoquinoline; unsubstituted or substituted benzothiazole; unsubstituted or

substituted indole; unsubstituted or substituted imidazo[4,5-b]pyridine; unsubstituted or substituted imidazo[4,5-c]pyridine; unsubstituted or substituted oxazolo[4,5-b]pyridine; unsubstituted or substituted dihydrobenzofuran; unsubstituted or substituted benzofuran; unsubstituted or substituted benzo[2,1,3]thiadiazole; unsubstituted or substituted benzo[1,2,5]thiadiazole; unsubstituted or substituted pyrazolo[1,5-a]pyrimidine; unsubstituted or substituted 3,4-dihydro-2H-benzo[b][1,4]dioxepine; unsubstituted or substituted [1,5]naphthyridine; unsubstituted or substituted [1,6]naphthyridine; and unsubstituted or substituted [1,8]naphthyridine;

wherein the substitution may independently be one or more of the following:

(C₁-C₆)alkyl; (C₁-C₆)alkoxy; halogen; hydroxy; nitro; amino;

phenyl or substituted phenyl, wherein the phenyl may independently be substituted by one or two of the following: halogen, (C₁-C₆)alkyl, (C₁-C₆)alkoxy, nitro, amino, or hydroxy;

-(CH₂)_mR⁸;

-(CH₂)_o(O)R⁹;

-(CH₂)_oC(O)morpholine;

-C(O)R⁶;

-C(O)OR⁴;

-C(O)NR⁴R⁵;

-C(O)NR⁴(CH₂)_oNR⁴R⁵;

-NR⁴(C₁-C₉)alkyl;

-NR⁴C(O)(CH₂)_mCH₃;

-NR⁴C(O)(CH₂)_oNR⁴R⁵;

-O(CH₂)_oR⁷; or

-OC(O)R⁴;

wherein

m is 0, 1, 2 or 3;

o is 1, 2 or 3;

R⁴ and R⁵ are each independently hydrogen or (C₁-C₆)alkyl;

R⁶ is hydrogen, (C₁-C₆)alkyl or -NR⁴R⁵;

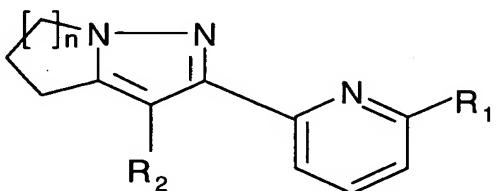
R⁷ is hydroxy, cyano, pyrrolidine or NR⁴R⁵;

R⁸ is morpholine, hydroxy, pyrrolidine, tetrahydropyran, (C₁-C₆)alkyl or NR⁴R⁵;

R⁹ is morpholine, pyrrolidine, tetrahydropyran, or (C₁-C₆)alkyl;

R₃ is hydrogen or (C1-C6)alkyl; and
the pharmaceutically acceptable salts thereof.

Claim 2. (currently amended) A compound according to claim 1 of the formula:



Formula II

wherein n is 0 or 1;

R₁ is hydrogen or (C1-C4alkyl);

R₂ is selected from the group comprising unsubstituted or substituted thiophene; unsubstituted or substituted oxazole; unsubstituted or substituted pyrazine; unsubstituted or substituted furan; unsubstituted or substituted imidazo[1,2-a]pyridine; unsubstituted or substituted benzoimidazole; unsubstituted or substituted quinoxaline; unsubstituted or substituted isoquinoline; unsubstituted or substituted benzothiazole; unsubstituted or substituted indole; unsubstituted or substituted imidazo[4,5-b]pyridine; unsubstituted or substituted imidazo[4,5-c]pyridine; unsubstituted or substituted oxazolo[4,5-b]pyridine; unsubstituted or substituted dihydrobenzofuran; unsubstituted or substituted benzofuran; unsubstituted or substituted benzo[2,1,3]thiadiazole; unsubstituted or substituted benzo[1,2,5]thiadiazole; unsubstituted or substituted pyrazolo[1,5-a]pyrimidine; unsubstituted or substituted 3,4-dihydro-2H-benzo[b][1,4]dioxepine; unsubstituted or substituted [1,5]naphthyridine; unsubstituted or substituted [1,6]naphthyridine; and unsubstituted or substituted [1,8]naphthyridine;

wherein the substitution may independently be one or more of the following:

(C1-C6)alkyl; (C1-C6)alkoxy; halogen; hydroxy; nitro; amino; phenyl or substituted phenyl, wherein the phenyl is substituted by one or two halogens; -(CH₂)_mR⁸; -(CH₂)_n(O)R⁹; -(CH₂)_nC(O)morpholine;

X-16014
Preliminary Amendment

-C(O)R⁶;
-C(O)OR⁴;
-C(O)NR⁴R⁵;
-C(O)NR⁴(CH₂)_oNR⁴R⁵;
-NR⁴(C₁-C₉)alkyl;
-NR⁴C(O)(CH₂)_mCH₃;
-NR⁴C(O)(CH₂)_oNR⁴R⁵;
-O(CH₂)_oR⁷;
or -OC(O)R⁴;

wherein

m is 0, 1, 2 or 3;

o is 1, 2 or 3;

R⁴ and R⁵ are each independently hydrogen or (C₁-C₆)alkyl;

R⁶ is hydrogen, (C₁-C₆)alkyl or -NR⁴R⁵;

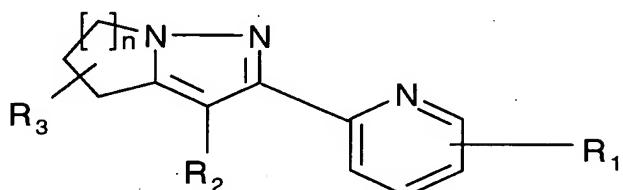
R⁷ is hydroxy, cyano, pyrrolidine or NR⁴R⁵;

R⁸ is morpholine, hydroxy, pyrrolidine, tetrahydropyran, (C₁-C₆)alkyl or NR⁴R⁵;

R⁹ is morpholine, pyrrolidine, tetrahydropyran, or (C₁-C₆)alkyl; and

the pharmaceutically acceptable salts thereof.

Claim 3. (original) A compound according to Claim 1:



Formula I

wherein n is 1-4;

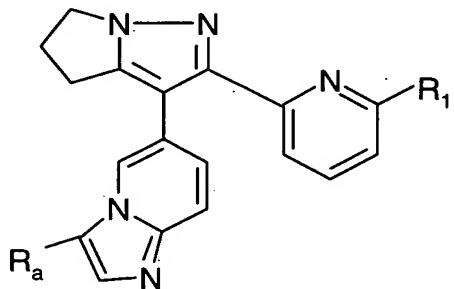
R₁ may be one or more optional substituents selected from the group consisting of: (C₁-C₆)alkyl, (C₂-C₆)alkenyl, (C₂-C₆)alkynyl, (C₁-C₆)alkoxy, (C₂-C₆)alkenyloxy, (C₂-C₆)alkynyloxy, (C₁-C₆)alkylthio, (C₁-C₆)alkylsulphinyl, (C₁-C₆)alkylsulphonyl, (C₁-

C6)alkylamino, di-[(C1-C6)alkyl]amino, (C1-C6)alkoxycarbonyl, N-(C1-C6)alkylcarbamoyl, N,N-di-[(C1-C6)alkyl]carbamoyl, (C2-C6)alkanoyl, (C2-C6)alkanoyloxy, (C2-C6)alkanoylamino, N-(C1-C6)alkyl-(C2-C6)alkanoylamino, (C3-C6)alkenoylamino, N-(C1-C6)alkyl-(C3-C6)alkenoylamino, (C3-C6)alkynoylamino, N-(C1-C6)alkyl-(C3-C6)alkynoylamino, N-(C1-C6)alkylsulphamoyl, N,N-di-[(C1-C6)alkyl]sulphamoyl, (C1-C6)alkanesulphonylamino, N-(C1-C6)alkyl-(C1-C6)alkanesulphonylamino, carboxamide, ~~ethylene~~, thiophenyl, aminophenyl, trifluoromethyl, halo, trifluoromethoxy, hydroxymethyl, N-pyrrolidino, N-morpholino, phenylthio, (C1-C4)dialkylaminomethyl, methoxyphenyl, amino, hydroxy, carboxyl, phenyl, and arylalkyl;

R₂ is selected from the group comprising oxazole; benzo[2,1,3]thiadiazole; quinoxaline; 1*H*-imidazo[4,5-*c*]pyridine; imidazo[1,2-*a*]pyridine; indole; pyrazine; dihydrobenzofuran; furan; thiophene; isoquinoline; benzofuran; benzothiazole; 3,4-dihydro-2*H*-benzo[*b*][1,4]dioxepine; 1*H*-imidazo[4,5-*b*]pyridine; pyrazolo[1,5-*a*]pyrimidine; oxazolo[4,5-*b*]pyridine; 1*H*-benzoimidazole; [1,8]naphthyridine; and [1,5]naphthyridine;

R₃ may be one or more optional substituents selected from the group consisting of (C1-C6 alkyl); and
the pharmaceutically acceptable salts thereof.

Claim 4. (currently amended) A compound according to claim 2 of the formula:



Formula III

wherein:

R₁ is hydrogen or methyl;

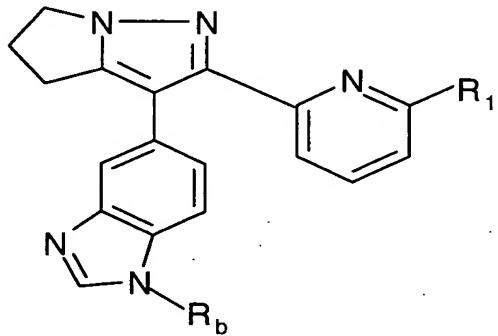
R_a is hydrogen;

-CH₂N-morpholino;

-CH₂C(O)N-~~morpeline~~-morpholino;

-C(O)OCH₂CH₃;
-C(O)NH(CH₂)₂N(CH₃)₂;
-NHCH(CH₂)₂CH₂CH(CH₂)₂CH₃;
-NHC(O)CH₃;
-C(O)NH₂; or
4-chlorophenyl; and
the pharmaceutically acceptable salts thereof.

Claim 5. (original) A compound according to claim 2 of the formula:

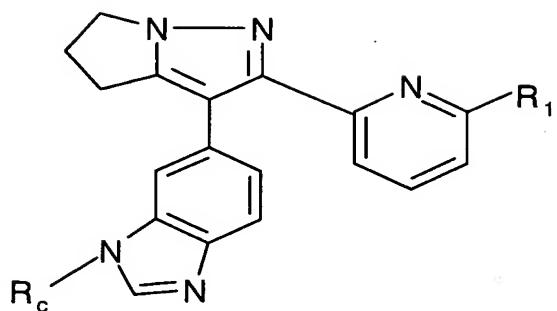


Formula IV

wherein:

R₁ is hydrogen or methyl;
R_b is hydrogen;
-methyl;
or -(CH₂)₃O-tetrahydropyran; and
the pharmaceutically acceptable salts thereof.

Claim 6. (currently amended) A compound according to claim 2 of the formula:



Formula V

wherein:

R₁ is hydrogen or methyl;

R_c is hydrogen;

-methyl;

-(CH₂)₃OH;

-(CH₂)₃N(CH₃)₂;

-(CH₂)₃N(CH₂CH₃)₂;

or -(CH₂)X,

wherein X is either N-morpholino, N-pyrrolidine or N-piperidine; and

the pharmaceutically acceptable salts thereof.

Claims 7-8 (canceled)

Claim 9. (currently amended) A pharmaceutical formulation comprising a compound according to ~~any one of Claims 1 to 6~~ Claim 1 or the pharmaceutically acceptable salt or ester thereof together with a pharmaceutically acceptable diluent or carrier.

Claim 10 (canceled)

Claim 11. (currently amended) ~~The A~~ method of treating cancer which comprises administering to a patient in need thereof a therapeutically effective amount of a compound ~~according to any one of Claims 1 to 8 of Claim 1~~ or a pharmaceutically acceptable salt or ester thereof.